BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work:"Consultancy services for preparation of DPR for the work of Asphalting to roads at chowdappa layout , Maruthi Layout, Hillside Medows and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division" Est cost Rs. 200 Lakhs"

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
		Estimate Cost Rs.							20000000
1	KSRRB 300-1 Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. P No. 143/ Item No. 19.1/ PWD SR 2018-19								
	RCC Drain	Cum							
	BHEL Layout								
	BHEL 3rd Cross road LHS		1	118	1.1	1.0	129.80		
	BHEL 4th Cross road LHS		1	115	1.1	1.0	126.50		
	BHEL 4th Cross road RHS		1	115	1.1	1.0	126.50		
	BHEL 5th Cross road LHS		1	110	1.1	1.0	121.00		
	BHEL 5th Cross road RHS		1	110	1.1	1.0	121.00		
						Cum	624.80	211.79	132326.00
	Basic Rate	130.00							
	Lead and Lift	73.99							
	Area Weightage @ 6%	7.80							
	Total	211.79							
2	KSRRBM29001 Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed,placed infoundation and compacted by vibration including curing including cost of materials,labour, HOM complete as per the specification Specification No. P No. 254/ Item No. 34.2/ PWD SR 2018-19								
	RCC Drain	cum							
	BHEL Layout								
	BHEL 3rd Cross road LHS		1	118	1.1	0.15	19.47		
	BHEL 4th Cross road LHS		1	115	1.1	0.15	18.98		
	BHEL 4th Cross road RHS		1	115	1.1	0.15	18.98		
	BHEL 5th Cross road LHS		1	110	1.1	0.15	18.15		
	BHEL 5th Cross road RHS		1	110	1.1	0.15	18.15		
						cum	93.72	4479.56	419824
	Basic Rate	4226							
	Area Weightage @ 6%	253.56							
	Total	4479.56							
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specifications. Item No. 37.59.2/ page no.271/PWD SR 2018-19								
	RCC Drain Raft	Cum							
	BHEL Layout								
	BHEL 3rd Cross road LHS		1	118	0.9	0.15	15.93		
	BHEL 4th Cross road LHS		1	115	0.9	0.15	15.53		
	BHEL 4th Cross road RHS		1	115	0.9	0.15	15.53		
	BHEL 5th Cross road LHS		1	110	0.9	0.15	14.85		
	BHEL 5th Cross road RHS		1	110	0.9	0.15	14.85		
	RCC Drain wall								
	BHEL Layout								
	BHEL 3rd Cross road LHS		2	118	0.15	0.7	24.78		
	BHEL 4th Cross road LHS		2	115	0.15	0.7	24.15		
	BHEL 4th Cross road RHS		2	115	0.15	0.7	24.15		
	BHEL 5th Cross road LHS		2	110	0.15	0.7	23.10		
	BHEL 5th Cross road RHS		2	110	0.15	0.7	23.10		
						Cum	195.96	7070.2	1385476
	Basic Rate	6670							
	Area Weightage @ 6%	400.2							
	Total	7070.2							

4	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specificatio (i No-28.8.2,P No-229)								
	All Culverts and Drains included				Tonne				
	60kg/Cum for Culvert								
			60	195.96			11074		
						Tonne	11.07	72326.98	800949
	Basic Rate	68233							
	Area Weightage @ 6%	4093.98							
	Total	72326.98							
5	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
					Sqm				
	RCC Drain								
	BHEL 3rd Cross road LHS		1	118	0.9		106.20		
	BHEL 4th Cross road LHS		1	110	0.9		99.00		
	BHEL 4th Cross road RHS		1	115	0.9		103.50		
	BHEL 5th Cross road LHS		1	110	0.9		99.00		
	BHEL 5th Cross road RHS		1	110	0.9		99.00		
						Sqm	506.70	2337	1184158
	Data Rate	2337							
6	5.29(b) Providing and fixing **pre cast solid cement concrete kerb stones** made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 27/ Item No. 5.30/ PWD SR 2018-19								
					Nos				
	RCC Drain								
	BHEL 3rd Cross road LHS		1	118			118.00		
	BHEL 4th Cross road LHS		1	115			115.00		
	BHEL 4th Cross road RHS		1	115			115.00		
	BHEL 5th Cross road LHS		1	110			110.00		
	BHEL 5th Cross road RHS		1	110			110.00		
							567.90		
				l.e 1795/0.45			1262.00		
						Nos	1262	477	601974.00
	Basic Rate	450							
	Area Weightage @ 6%	27							
	Total	477							
7	KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
					Sqm				
	RCC Drain								
	BHEL 3rd Cross road LHS		1	118		0.4	47.20		
	BHEL 4th Cross road LHS		1	115		0.4	46.00		
	BHEL 4th Cross road RHS		1	115		0.4	46.00		
	BHEL 5th Cross road LHS		1	110		0.4	44.00		
	BHEL 5th Cross road RHS		1	110		0.4	44.00		
						Sqm	227.20	84.8	19267
	Basic Rate	80							
	Area Weightage @ 6%	4.8							
	Total	84.8							
8	KSRRB M300-13 Excavation for roadway in hard rock (requiring blasting) by drilling, blasting and breaking, trimming of bottom and side slopes in accordance with requirements of lines, grades and cross sections, loading and stacking at site of cut road with a lead of 1.00 km and complete as per specifications. (Excavated rock credited to contractor) MORTH Specification No. 301								
					Cum				
	Road cutting portion(UGD and Pipe line)								
	Maruthi Nagar								
	Maruthi Nagar 1st Main Road		2	240	1	0.3	144.00		
	Maruthi Nagar 4th cross road		2	135	1	0.3	81.00		
	Drain Desilt								
	Chowdappa Layout 1st main road		2	200	0.5	0.35	70.64		
	Maruthi Nagar								

	Maruthi Nagar 1st Main Road		2	240	0.6	0.45	129.60		
	Maruthi Nagar 2nd cross road		2	52	0.6	0.45	28.08		
	Maruthi Nagar 3rd cross road		2	175	0.6	0.45	94.50		
	Maruthi Nagar 4th cross road		2	135	0.6	0.45	72.90		
	Hariraja Badavane								
	Hariraja Badavane Cross-2nd		2	65	0.6	0.45	35.10		
	Hariraja Badavane Cross-3rd		2	77	0.6	0.45	41.58		
	Hariraja Badavane Cross-4th		2	82	0.6	0.45	44.28		
	Hariraja Badavane Cross-5th		2	108	0.6	0.45	58.32		
	New Road								
	Maruthi Nagar 2nd cross road		1	52	4.5	0.3	70.20		
	Hariraja Badavane								
	Hariraja Badavane Cross-2nd		1	65	5	0.3	97.50		
	Hariraja Badavane Cross-3rd		1	77	5	0.3	115.50		
	Hariraja Badavane Cross-4th		1	82	5	0.3	123.00		
	Hariraja Badavane Cross-5th		1	108	5	0.3	162.00		
	BHEL Layout								
	BHEL 1st Cross road LHS		1	125	6	0.3	225.60		
	BHEL 2nd Cross road LHS		1	125	6	0.3	225.00		
	Profile correction and Restoration of Cutting (20% of the total length of road)		1	391	4	0.3	469.60		
						Cum	2288.40	43.46	99454
	Basic Rate	41							
	Area Weightage @ 6%	2.46							
	Total	43.46							
9	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications MORTH / Chapter 3(P No.145, I No 19.56)								
		Sqm							
	Reconstruction								
	BHEL 3rd Cross road LHS		1	118	6		708.00		
	BHEL 4th Cross road LHS		1	115	6		690.00		
	BHEL 5th Cross road LHS		1	110	6		660.00		
	Chowdappa Layout 1st main road		1	200	5		1002.00		
	Maruthi Nagar 3rd cross road		1	175	5		875.00		
						Sqm	3935.00	41.34	162673
	Basic Rate	39							
	Area Weightage @ 6%	2.34							
	Total	41.34							
10	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications (I No-19.64,P No-147)								
		Sqm							
	Hariraja Badavane								
	Hariraja Badavane Cross-2nd		1	65	5		325.00		
	Hariraja Badavane Cross-3rd		1	77	5		385.00		
	Hariraja Badavane Cross-4th		1	82	5		410.00		
	Hariraja Badavane Cross-5th		1	108	5		540.00		
	Maruthi Nagar								
	Maruthi Nagar 2nd cross road		1	52	4.5		234.00		
	Maruthi Nagar 3rd cross road		1	175	5		875.00		
	Reconstruction								
	BHEL 1st Cross road LHS		1	125	6		752.00		
	BHEL 2nd Cross road LHS		1	125	6		750.00		
	BHEL 3rd Cross road LHS		1	118	6		708.00		
	BHEL 4th Cross road LHS		1	115	6		690.00		
	BHEL 5th Cross road LHS		1	110	6		660.00		
	Chowdappa Layout 1st main road		1	200	5		1002.00		
						Sqm	7331.00	6.36	46625
	Basic Rate	6							
	Area Weightage @ 6%	0.36							
	Total	6.36							

11	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision (I No-20.6,P No-153)								
	New Roads					Cum			
	Maruthi Nagar 2nd cross road		1	52	4.5	0.15	35.10		
	Hariraja Badavane								
	Hariraja Badavane Cross-2nd		1	65	5	0.15	48.75		
	Hariraja Badavane Cross-3rd		1	77	5	0.15	57.75		
	Hariraja Badavane Cross-4th		1	82	5	0.15	61.50		
	Hariraja Badavane Cross-5th		1	108	5	0.15	81.00		
	BHEL Layout								
	BHEL 1st Cross road LHS		1	125	6	0.15	112.60		
	BHEL 2nd Cross road LHS		1	125	6	0.15	112.50		
	Profile correction and Restoration of Cutting		1	391	1	0.3	105.90		
						Cum	615.30	1855	1141387
	Basic Rate	1750							
	Area Weightage @ 6%	105							
	Total	1855							
12	KSRRB M400-17 Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P No-155,I No-20.18)								
	Road cutting portion				Cum				
	Maruthi Nagar								
	Maruthi Nagar 1st Main Road entry		2	240	1	0.23	110.40		
	Maruthi Nagar 4th cross road		2	135	1	0.23	62.10		
	New Roads								
	Hariraja Badavane								
	Hariraja Badavane Cross-2nd		1	65	5	0.23	74.75		
	Hariraja Badavane Cross-3rd		1	77	5	0.23	88.55		
	Hariraja Badavane Cross-4th		1	82	5	0.23	94.30		
	Hariraja Badavane Cross-5th		1	108	5	0.23	124.20		
	Maruthi Nagar								
	Maruthi Nagar 2nd cross road		1	52	4.5	0.23	53.82		
	Maruthi Nagar 3rd cross road		1	175	5	0.23	201.25		
	Reconstruction								
	BHEL 1st Cross road LHS		1	125	6	0.23	172.96		
	BHEL 2nd Cross road LHS		1	125	6	0.23	172.50		
	BHEL 3rd Cross road LHS		1	118	6	0.23	162.84		
	BHEL 4th Cross road LHS		1	115	6	0.23	158.70		
	BHEL 5th Cross road LHS		1	110	6	0.23	151.80		
	Chowdappa Layout 1st main road		1	200	5	0.23	230.46		
	Profile correction and Restoration of Cutting (20% of the total length of road)		1	391	5	0.23	437.40		
						Cum	2296.03	2001.28	4594999
	Basic Rate	1888							
	Area Weightage @ 6%	113.28							
	Total	2001.28							
13	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Road cutting portion				Sqm				
	Maruthi Nagar								
	Maruthi Nagar 1st Main Road entry		2	240	1		480.00		
	Reconstruction								
	BHEL 1st Cross road LHS		1	125	6		752.00		
	BHEL 2nd Cross road LHS		1	125	6		750.00		
	BHEL 3rd Cross road LHS		1	118	6		708.00		
	BHEL 4th Cross road LHS		1	115	6		690.00		
	BHEL 5th Cross road LHS		1	110	6		660.00		

	Chowdappa Layout 1st main road								
	Profile correction and Restoration of Cutting		1	200	5		1002.00		
			1	391	0.5		207.99		
						Sqm	5250.00	33.92	178080
	Basic Rate	32							
	Area Weightage @ 6%	1.92							
	Total	33.92							
14	KSRRB 500-11. Providing and laying **bituminous macadam** on Prepared Surface with crushed Coarse aggregates as per Design mix formulae for base/binding course including loading of aggregates with F.E loader,Hot mixing of Stone aggregates and bitumen in Hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve desired density, but excluding cost of primer/Tack coat including lead, lift and cost of all materials, labour HOM of machinaries complete as per Specifications. MORTH Ch 5. using 40/60 TPH capacity HMP with Mechanical paver Gr-II (50mm - 75mm) with 3.4% VG-30 bitumen (P.No-159,I No-21.11.6)								
	Road cutting portion		Cum						
	Maruthi Nagar								
	Maruthi Nagar 1st Main Road entry		2	240	1	0.05	24.00		
	Reconstruction								
	BHEL 1st Cross road LHS		1	125	6	0.05	37.60		
	BHEL 2nd Cross road LHS		1	125	6	0.05	37.50		
	BHEL 3rd Cross road LHS		1	118	6	0.05	35.40		
	BHEL 4th Cross road LHS		1	115	6	0.05	34.50		
	BHEL 5th Cross road LHS		1	110	6	0.05	33.00		
	Chowdappa Layout 1st main road		1	200	5	0.05	50.10		
	Profile correction and Restoration of Cutting		1	391	0.5	0.05	10.40		
						Cum	262.50	7428.48	1949975
	Basic Rate	7008							
	Area Weightage @ 6%	420.48							
	Total	7428.48							
15	KSRRB M500-2: **Cleaning the exclsting** black topped surface with brooms, soft brushs and finally dusting with old gunny bags and compressed air to receive bituuminous tratement including cost of all materials, labours, HOM complete as per specifications. P No. 158/ Item No. 21.2/ PWD SR 2018-19								
			Sqm						
	Maruthi Nagar								
	Maruthi Nagar 1st Main Road entry		1	240	6		1440.00		
	Maruthi Nagar 4th cross road		1	135	5		675.00		
						Sqm	2115.00	5.3	11210
	Basic Rate	5							
	Area Weightage @ 6%	0.3							
	Total	5.3							
16	KSRRB M500-10. Tack Coat:- Providing and applying **tack coat** using 80/100 grade bitumen (VG 10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the existing prepared bituminous surface cleaned with mechancial broom. complete as per specifications. MORTH Specification No. 503 (P-159, Item.no 21.10).								
	Road cutting portion		Sqm						
	Maruthi Nagar								
	Maruthi Nagar 1st Main Road entry		1	240	6		1440.00		
	Maruthi Nagar 2nd cross road		1	52	4.5		234.00		
	Maruthi Nagar 3rd cross road		1	175	5		875.00		
	Maruthi Nagar 4th cross road		1	135	5		675.00		
	New Roads								
	Hariraja Badavane								
	Hariraja Badavane Cross-2nd		1	65	5		325.00		
	Hariraja Badavane Cross-3rd		1	77	5		385.00		
	Hariraja Badavane Cross-4th		1	82	5		410.00		
	Hariraja Badavane Cross-5th		1	108	5		540.00		
	Reconstruction								
	BHEL 1st Cross road LHS		1	125	6		752.00		
	BHEL 2nd Cross road LHS		1	125	6		750.00		
	BHEL 3rd Cross road LHS		1	118	6		708.00		
	BHEL 4th Cross road LHS		1	115	6		690.00		
	BHEL 5th Cross road LHS		1	110	6		660.00		

	Chowdappa Layout 1st main road								
	Profile correction and Restoration of Cutting (20% of the total length of road)		1	200	5		1002.00		
			1	391	4		1458.00		
	Basic Rate	12				Sqm	10904.00	12.72	138699
	Area Weightage @ 6%	0.72							
	Total	12.72							
17	KSRRB M500-19: providing and laying **bituminous concrete** 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications. MORTH specification 30-45mm compacted thicikness (GradingII) With 6% bitumen 80/100, No. 161/ Item No. 21.22.6/ PWD SR 2018-19								
	Road cutting portion				Cum				
	Maruthi Nagar								
	Maruthi Nagar 1st Main Road entry		1	240	6	0.04	57.60		
	Maruthi Nagar 2nd cross road		1	52	4.5	0.04	9.36		
	Maruthi Nagar 3rd cross road		1	175	5	0.04	35.00		
	Maruthi Nagar 4th cross road		1	135	5	0.04	27.00		
	New Roads								
	Hariraja Badavane								
	Hariraja Badavane Cross-2nd		1	65	5	0.04	13.00		
	Hariraja Badavane Cross-3rd		1	77	5	0.04	15.40		
	Hariraja Badavane Cross-4th		1	82	5	0.04	16.40		
	Hariraja Badavane Cross-5th		1	108	5	0.04	21.60		
	Reconstruction								
	BHEL 1st Cross road LHS		1	125	6	0.04	30.08		
	BHEL 2nd Cross road LHS		1	125	6	0.04	30.00		
	BHEL 3rd Cross road LHS		1	118	6	0.04	28.32		
	BHEL 4th Cross road LHS		1	115	6	0.04	27.60		
	BHEL 5th Cross road LHS		1	110	6	0.04	26.40		
	Chowdappa Layout 1st main road		1	200	5	0.04	40.08		
	Profile correction and Restoration of Cutting (20% of the total length of road)		1	391	4	0.04	57.84		
						Cum	435.68	8831.92	3847891
	Basic Rate	8332							
	Area Weightage @ 6%	499.92							
	Total	8831.92							
18	KSRRB M800-13. Providing and laying of **hot applied thermoplastic** compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No 181., I.No.24.15 of KPWD S.R 2015-16).								
					Sqm				
	Maruthi Nagar								
	Maruthi Nagar 1st Main Road entry		2.5	240	0.1		60.00		
	Maruthi Nagar 2nd cross road		2	52	0.1		10.40		
	Maruthi Nagar 3rd cross road		2	175	0.1		35.00		
	Maruthi Nagar 4th cross road		2	141.85	0.1		28.37		
	New Roads								
	Hariraja Badavane								
	Hariraja Badavane Cross-2nd		2	65	0.1		13.00		
	Hariraja Badavane Cross-3rd		2	77	0.1		15.40		
	Hariraja Badavane Cross-4th		2	82	0.1		16.40		
	Hariraja Badavane Cross-5th		2	109	0.1		21.80		
	Reconstruction								
	BHEL 1st Cross road LHS		2.5	125	0.1		31.33		
	BHEL 2nd Cross road LHS		2.5	125	0.1		31.25		
	BHEL 3rd Cross road LHS		2.5	118	0.1		29.50		
	BHEL 4th Cross road LHS		2.5	115	0.1		28.75		
	BHEL 5th Cross road LHS		2.5	110	0.1		27.50		
	Chowdappa Layout 1st main road		2.5	200	0.1		50.10		
						Sqm	398.80	454.74	181352
	Basic Rate	429							
	Area Weightage @ 6%	25.74							
	Total	454.74							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
22							Grand Total		17060657
23	For 12% Applicable GST								2047279
24	For 4% KRIDL Charges								682426.28
25	For 1% DPR and PMC Charges								200000
	Miscellaneous Charges	L/S							9637.72
									20000000

Certificate

1	The work spot has been inspected and the work is found necessary
2	This estimate is prepared as per PWD SR of 2018-19
3	The provisions were made in this estimate are necessary and adequate.
4	This works come under B.B.M.P. limits

Junior/Assistant Engineer

Executive Engineer
Yelahanka Satellite Town sub Division

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ.
Assistant Executive Engineer
Yelahanka Satellite Town sub Division
ಬ.ಬ.ಎಂ.ಪ. ಬೆಂಗಳೂರು-106

Administrative Sanction for Rs. 200.00 lakhs
.....Two crore only.....
.....
is accorded under head P-3749.....
.....Cm - Navanagarokthana 110 - Village
.....grants Annexure-07.....
Registered as CE No. .... Subject
to condition mentioned in
No. E.E/YNK/G2/2019-20 ... 7/11/2019

Executive Engineer

Technical Sanction
Accorded For Rs 200 lakhs only
Head of A/C ... P3749 ...
CER NO :.....304..... Dt 08-11-2019

TA CE (YNK)